

## ABSTRACT

The present invention provides a method of polyubiquitinating a nucleophosmin comprised of reacting the nucleophosmin *in vitro* or *in vivo* with BRCA1-BARD1. The present invention also provides a method of inhibiting polyubiquitination of nucleophosmin comprised of phosphorylating BARD1 using CDK2-cyclin E and/or CDK2-cyclin A.